

PRELIMINARY REPORT
INDUSTRY SERIES**1982**
Census of
Construction Industries

CC82-I-9(P)

Issued April 1984

HEAVY CONSTRUCTION CONTRACTORS, N.E.C.
(Industry 1629)

During 1982, the establishments with paid employees classified in this industry accounted for \$36.2 billion in total business receipts. Of this amount, \$33.4 billion were receipts for construction work. These establishments paid out \$10.1 billion for materials, components, supplies, and fuels and \$7.1 billion for construction work subcontracted to others. This industry had total average employment of 413,845 employees with total payroll of \$11.0 billion. Value added for 1982 was \$18.9 billion.

Establishments classified in this industry are primarily engaged in heavy construction projects, not elsewhere classified, such as construction of chemical complexes, dams and reservoirs, harbor and port facilities, missile facilities, oil refineries, subways, water and sewage treatment plants, light and power plants, industrial ovens and incinerators, flood control projects, and dredging and demolition contractors. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.

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Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States -----	7 764	413 845	328 180	11 008 130	8 583 840	498 405	33 440 173	26 310 852
Alabama -----	147	5 736	4 487	142 349	100 417	7 905	496 213	337 933
Alaska -----	42	2 157	1 692	51 963	42 378	2 352	155 037	139 455
Arizona -----	64	2 122	1 891	46 478	41 302	3 560	219 379	196 193
Arkansas -----	123	2 459	2 280	55 713	51 657	4 771	129 945	116 194
California -----	714	61 258	41 032	2 188 784	1 483 760	65 043	6 914 445	5 121 316
Colorado -----	145	5 793	4 769	171 562	145 099	9 146	853 861	733 044
Connecticut -----	61	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Delaware -----	26	1 367	1 290	(D)	(D)	1 823	(D)	(D)
District of Columbia -----	3	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Florida -----	476	9 023	6 908	179 194	123 180	12 762	692 565	589 695
Georgia -----	220	4 355	3 702	79 472	63 572	7 158	279 253	223 693
Hawaii -----	28	321	225	6 688	4 526	377	26 894	18 729
Idaho -----	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Illinois -----	244	8 738	6 934	249 968	192 636	12 494	964 841	753 520
Indiana -----	197	5 333	4 798	171 455	154 034	9 360	346 464	324 610
Iowa -----	184	877	736	12 851	10 742	1 335	68 833	56 765
Kansas -----	160	2 974	2 501	58 584	47 252	4 319	211 546	157 799
Kentucky -----	106	1 651	1 368	36 005	29 405	2 474	111 167	98 084
Louisiana -----	315	18 890	16 127	444 022	363 872	32 248	1 444 860	1 340 899
Maine -----	22	517	445	8 635	6 396	1 001	35 247	28 573
Maryland -----	99	7 891	4 778	(D)	146 674	10 019	461 107	369 786
Massachusetts -----	140	13 744	11 888	234 361	154 839	20 331	601 130	501 381
Michigan -----	221	13 795	11 099	430 661	334 758	22 333	1 230 709	889 376
Minnesota -----	151	4 840	3 369	100 955	70 301	6 260	418 568	263 668
Mississippi -----	121	8 381	8 062	210 231	202 097	17 038	696 369	612 519
Missouri -----	151	3 414	2 944	69 476	54 050	5 038	345 107	258 865
Montana -----	71	1 365	1 187	19 279	16 122	2 195	79 450	66 355
Nebraska -----	75	376	311	7 012	5 589	587	31 604	25 416
Nevada -----	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire -----	58	4 638	4 123	(D)	(D)	(D)	186 976	173 950
New Jersey -----	213	7 804	6 155	188 515	139 983	10 208	646 939	557 281
New Mexico -----	44	1 276	1 114	26 218	23 080	2 070	64 693	59 007
New York -----	352	7 549	6 031	186 517	143 282	10 728	722 710	561 779
North Carolina -----	169	2 437	2 027	65 982	54 552	4 131	250 174	217 958
North Dakota -----	24	264	235	5 125	4 547	462	25 052	19 955
Ohio -----	248	17 244	14 299	346 437	266 408	18 755	857 599	693 848
Oklahoma -----	216	4 482	3 741	100 409	83 315	7 794	248 117	218 024
Oregon -----	107	1 223	936	30 999	25 111	1 593	98 436	86 142
Pennsylvania -----	180	17 004	11 886	494 928	357 004	22 451	1 321 476	1 073 116
Rhode Island -----	23	548	448	13 632	11 122	821	42 763	38 092
South Carolina -----	112	(D)	(D)	(D)	(D)	3 321	(D)	(D)
South Dakota -----	21	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Tennessee -----	135	2 642	2 290	46 997	37 642	4 370	211 854	166 895
Texas -----	849	80 704	68 047	2 020 834	1 606 111	79 320	5 668 310	4 789 948
Utah -----	48	1 851	1 625	55 336	49 737	3 097	117 698	96 543
Vermont -----	22	(D)	(D)	(D)	(D)	1 262	(D)	(D)
Virginia -----	142	4 816	4 100	103 300	81 778	8 249	386 347	280 340
Washington -----	196	7 645	6 341	249 920	221 093	12 570	958 737	866 109
West Virginia -----	88	3 231	2 870	91 353	80 260	5 606	189 916	168 013
Wisconsin -----	67	1 288	1 121	30 888	26 800	2 000	122 597	101 354
Wyoming -----	66	637	535	12 589	10 196	976	41 753	37 467

1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
18 934 852	10 088 265	7 129 320	564 866	441 882	5 235 830	412 719	21 624 035	12 446 662	(W)	(W)	(W)	U.S.
216 806	(D)	158 280	4 960	6 591	74 396	5 196	222 767	135 789	1	1	11	Ala.
112 392	47 191	15 582	2 765	2 580	36 219	1 175	94 910	79 776	2	1	1	Alaska
227 996	(D)	23 185	1 137	1 263	28 643	746	40 413	26 089	3	1	2	Ariz.
92 222	32 286	13 751	1 498	2 609	36 836	1 530	49 224	24 740	3	4	22	Ark.
4 039 592	(D)	1 793 128	97 180	56 235	619 635	64 001	3 957 847	1 913 599	(W)	(W)	(W)	Calif.
394 653	356 610	120 817	14 026	5 559	56 140	7 832	403 461	267 123	2	(W)	1	Colo.
(D)	(D)	84 622	(D)	3 399	45 787	4 402	214 793	147 116	—	—	2	Conn.
(D)	(D)	(D)	(D)	1 119	13 147	(D)	(D)	(D)	(W)	—	(W)	Del.
(S)	(S)	(S)	(S)	(S)	(S)	1 022	72 512	38 899	—	—	—	D.C.
409 563	233 650	102 870	16 678	16 654	150 474	7 626	471 929	212 302	1	1	4	Fla.
146 128	92 146	55 560	3 823	7 264	58 448	5 339	287 223	121 697	3	2	7	Ga.
14 660	4 578	8 165	217	(D)	3 317	475	30 261	12 252	10	13	—	Hawaii
(D)	(D)	(D)	(D)	237	203 378	(D)	(D)	(D)	—	—	17	Idaho
500 339	269 247	211 320	15 382	32 010	72 768	16 063	831 002	485 163	1	(W)	(W)	Ill.
259 812	67 027	21 854	5 678	4 697		9 820	427 005	268 844	1	1	2	Ind.
32 750	25 301	12 068	1 212	3 252	29 507	1 548	64 216	39 322	8	8	15	Iowa
87 826	73 802	53 747	3 258	6 114	62 336	4 907	187 547	109 131	3	3	1	Kans.
63 228	39 342	13 082	3 373	2 958	36 000	2 733	127 085	76 199	3	3	2	Ky.
959 284	421 633	103 961	43 784	28 890	603 786	18 534	775 402	534 889	(W)	(W)	1	La.
20 854	7 861	6 674	(D)	(D)	(D)	879	24 229	14 124	3	4	—	Maine
415 747	(D)	91 320	12 368	10 812	108 042	8 568	522 518	261 348	(W)	(W)	1	Md.
334 746	200 549	99 749	15 221	5 192	93 335	(D)	598 226	356 096	(W)	(W)	2	Mass.
757 490	(D)	341 333	18 711	11 759	110 777	8 562	636 579	306 317	(W)	(W)	3	Mich.
(D)	173 796	154 900	5 332	9 136	224 488	6 724	420 493	223 838	1	1	(W)	Minn.
308 567	(D)	83 850	10 449	3 904	95 276	1 663	50 561	30 172	1	(W)	4	Miss.
157 936	105 555	86 242	4 750	10 590	71 989	4 047	241 200	119 892	2	1	3	Mo.
51 453	18 255	13 095	1 552	1 001	18 213	263	12 223	6 535	2	5	6	Mont.
17 262	8 740	6 187	1 720	1 683	15 048	1 365	78 178	44 204	15	9	8	Nebr.
(D)	(D)	(D)	(D)	759	4 351	(D)	(D)	(D)	—	—	32	Nev.
154 624	22 885	13 026	1 279	668	11 491	967	38 624	19 335	1	1	2	N.H.
388 908	184 302	89 658	18 314	13 115	176 086	18 828	680 836	324 666	1	(W)	1	N.J.
43 104	16 502	5 686	2 100	4 093	22 386	2 007	57 696	32 647	6	5	1	N. Mex.
372 134	206 818	160 931	18 131	14 484	102 337	11 078	736 355	347 192	1	1	3	N.Y.
(D)	61 337	32 216	2 565	1 633	28 473	2 574	125 450	65 146	3	1	12	N.C.
12 718	(D)	5 096	671	401	11 069	447	25 929	13 186	2	3	8	N. Dak.
525 890	219 008	163 750	12 321	11 427	128 249	15 234	751 812	453 095	(W)	(W)	1	Ohio
162 158	79 490	30 093	5 374	4 903	60 635	2 412	143 689	76 316	1	2	3	Okla.
57 574	31 276	12 294	9 730	5 084	26 375	1 365	118 852	65 946	4	4	(W)	Oreg.
851 707	391 317	248 360	19 633	11 478	158 754	25 185	1 224 417	787 799	(W)	(W)	(W)	Pa.
27 297	(D)	4 671	(D)	444	3 144	164	13 208	4 862	5	1	(W)	R.I.
(D)	(D)	(D)	6 664	2 970	45 045	4 518	145 363	87 219	—	—	5	S.C.
(S)	(S)	(S)	(S)	(S)	(S)	228	10 590	5 920	—	—	—	S. Dak.
106 129	63 909	44 959	3 526	4 148	40 273	2 561	96 375	56 486	2	1	(W)	Tenn.
3 631 378	1 529 002	878 361	115 377	95 246	1 092 249	99 133	4 976 357	3 486 383	(W)	(W)	(W)	Tex.
83 002	14 243	21 155	1 168	2 022	21 636	1 032	50 709	32 440	1	1	(W)	Utah
(D)	(D)	(D)	(D)	(D)	(D)	486	35 353	12 100	—	—	—	Vt.
163 778	121 279	106 007	7 060	11 814	105 236	2 448	115 218	57 717	1	1	1	Va.
684 415	196 739	92 628	11 953	9 680	131 174	5 347	351 904	190 326	(W)	(W)	2	Wash.
141 820	32 033	21 903	3 286	3 379	44 661	4 425	160 682	115 174	2	2	(W)	W. Va.
81 391	25 770	21 243	1 235	3 713	40 389	1 261	93 815	41 635	3	2	2	Wis.
29 163	9 887	4 286	1 378	2 827	23 073	816	32 145	22 430	9	7	5	Wyo.

Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
Total construction receipts -----	33 440 173	21 624 035	(W)	(W)
Building construction -----	2 686 034	1 117 644	(W)	(W)
Industrial buildings and warehouses -----	1 976 403	663 117	(W)	(W)
Office and bank buildings -----	176 085	89 919	(W)	(W)
Hospitals and institutional buildings -----	132 654	111 261	(W)	(W)
Other buildings -----	400 892	253 347	1	3
Nonbuilding construction -----	29 436 243	19 913 845	(W)	(W)
Highways, streets, and related facilities -----	724 092	372 330	1	1
Bridges, tunnels, and elevated highways -----	751 801	266 289	(W)	(W)
Dam and reservoir construction -----	440 107	644 470	1	(W)
Marine construction -----	1 307 705	908 289	1	1
Harbor and port facilities -----	399 868	303 577	2	1
Conservation and development construction -----	447 074	712 637	3	2
Power and communication transmission lines, towers, and related facilities -----	173 039	29 600	2	1
Mass transit construction -----	1 612 332	1 056 629	(W)	1
Blast furnaces, petroleum refineries, and chemical complexes -----	8 625 050	6 225 972	(W)	(W)
Power plants -----	10 703 298	6 075 400	(W)	(W)
Sewer, water mains, and related facilities -----	477 974	231 345	1	1
Pipe line, other than sewer or water lines -----	438 462	584 436	1	(W)
Sewage treatment and water treatment plants -----	1 956 973	1 809 966	1	1
Other nonbuilding construction -----	1 378 468	692 905	1	4
Construction work, n.s.k. -----	1 317 894	592 567	1	2

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The following abbreviations and symbols are used in the tables in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

